

Abstract

An Electro-modulating Device

5 This relates to an electro-modulating device (10) for
modulating light from a light source, as part of an opto-
electronic communication network. The electro-modulating
device (10) has a modulating medium (16) for modulating
light passing therethrough by varying an electric field
10 applied across the modulating medium (16), an optical
input-output surface (21), a light reflector (28), and
electrodes (15,17) for applying the varying electric field
across the modulating medium (16). The input-output
surface (21), the medium (16) and the reflector (28) are
15 arranged so that light enters the medium (16) through the
input-output surface (21), travels through the medium (16)
towards the reflector (28), is reflected by the reflector
(28) to travel back through the medium (16) towards the
input-output surface (21), and exits the medium (16)
20 through the input-output surface (21). The electric field
is transverse to light traversing the medium (16) between
the input-out surface and the reflector (28), to make it
easier to couple an optic fibre to the input-output
surface (21) of the modulating medium (16).

25

Figure 1